YH-361RF
LED RGB Controller

User's Manual

(Please read this manual carefully before use)

Product Brief

YH-361RF RF multi functional LED controller is a universal RGB controller with high-performance, adopted the most advanced PWM control technology. It's dedicated to control overall RGB color changes of LED lights with 4-pin wires (common anode), such as RGB LED module, LED strip, LED tape, and other LED lights.

This controller can work with Power Repeater to expand the power output, realizing infinite power expansion to connect any quantity of LED lights.

Ⅰ. Technical Specs

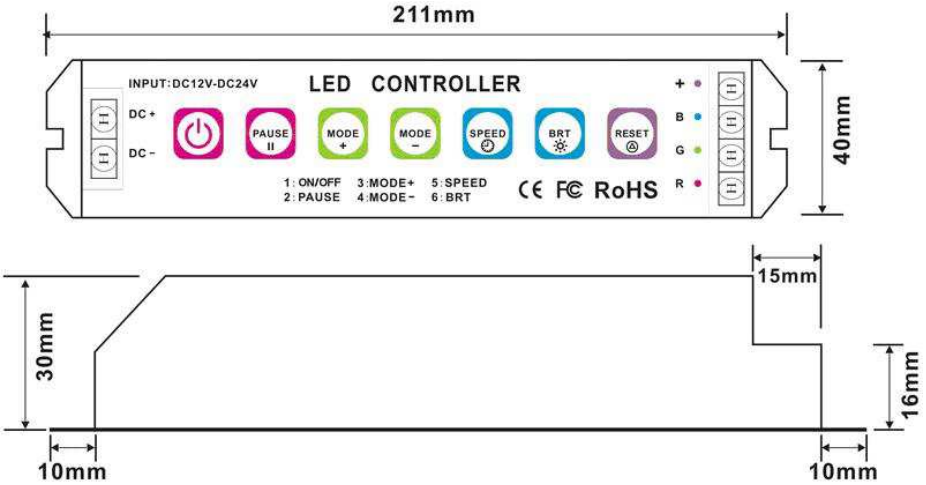
YH-361RF RF (Common Anode)

Input voltage	DC12V～DC24V
Max current load	6A/3CHs
Max output power	220W/450W(12V/24V)
Scale levels	256 steps per RGB
Remote control distance	50m with obstacles:100m without obstacles
Dimension	L211×W40×H30(mm)
Package Size	L293×W43×H33(mm)
Weight (G.W)	210g

Ⅱ. Features

1. Controlled both by manual buttons and its fitting remoter, reliable control distance can reach as far as 50m.
2. Auto adaptable for LED lights with voltage from DC12-24V.
3. 3-channels with 256 grey-steps per RGB, delicate & gentle for color gradation, without any flicker.
4. With 25 modes such as color gradation, color skipping, horserace, strobe, etc.
5. Static single color is selectable, speed & brightness are adjustable, with pause function. Can restore to default settings with the newly added RESET button.
6. Can stay at the current color and grey-step by selecting PAUSE function.
7. Can restore to default settings by pressing RESET key.
8. The output power can be expanded unlimitedly with our LED power repeater.

Ⅲ. Product Dimension



Ⅳ. Tables of changing modes

Sequence	Modes	Description
1	Static red	Static red, brightness adjustable
2	Static green	Static green, brightness adjustable
3	Static blue	Static blue, brightness adjustable
4	Static yellow	Static yellow, brightness adjustable
5	Static purple	Static purple, brightness adjustable
6	Static cyan	Static cyan, brightness adjustable
7	Static white	Static white, brightness adjustable
8	3 color skipping	Red, green and blue 3-color skipping
9	R,G color skipping	Red, green,2-color shipping
10	R,B color skipping	Red, blue,2-color shipping
11	G, B color skipping	Green, blue, 2-color skipping
12	7 color skipping	Red, green, blue, yellow, purple, cyan, white 7-color shipping
13	3 color smooth	Red, green and blue 3-color gradual changes separately
14	R, G color smooth	Red, green 2-color gradual changes
15	R, B color smooth	Red, blue 2-color gradual changes
16	G, B color smooth	green, blue 2-color gradual changes

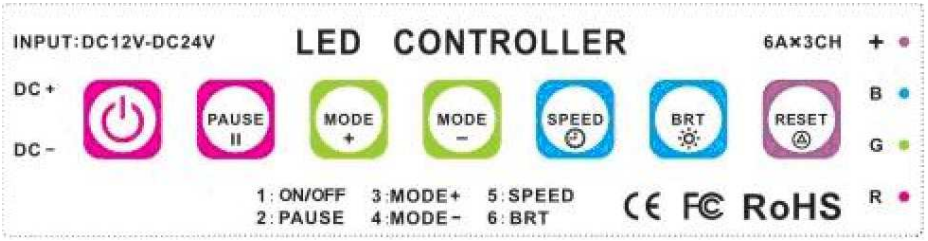
17	7 color smooth	Red, green, blue, yellow, purple, cyan, white 7-color smooth
18	Full color smooth	3 colors gradual change
19	White color smooth	White color smooth
20	RGB color strobe	red, green and blue strobe
21	R color strobe	Red color strobe twice
22	G color strobe	Green color strobe twice
23	B color strobe	blue color strobe twice
24	W color strobe	white color strobe twice
25	Great cycle	Auto cycle 8-24 modes

Ⅴ. Operating instructions

The controller, there are 7 function keys:

ON/OFF、PAUSE、MODE+、MODE-、SPEED、BRT、RESET

the first 6 buttons correspond to Buton1,2,3,4,5,6 in the remote controller.

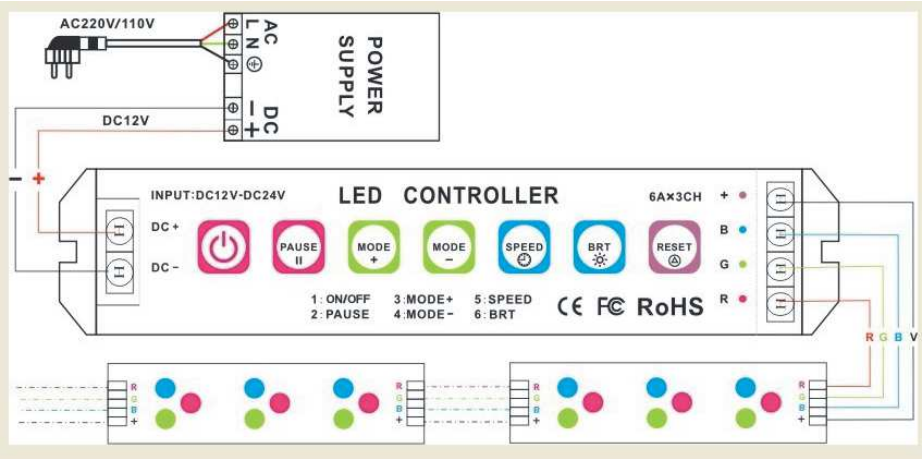


ON/OFF、PAUSE、MODE+、MODE-、SPEED、BRT、RESET

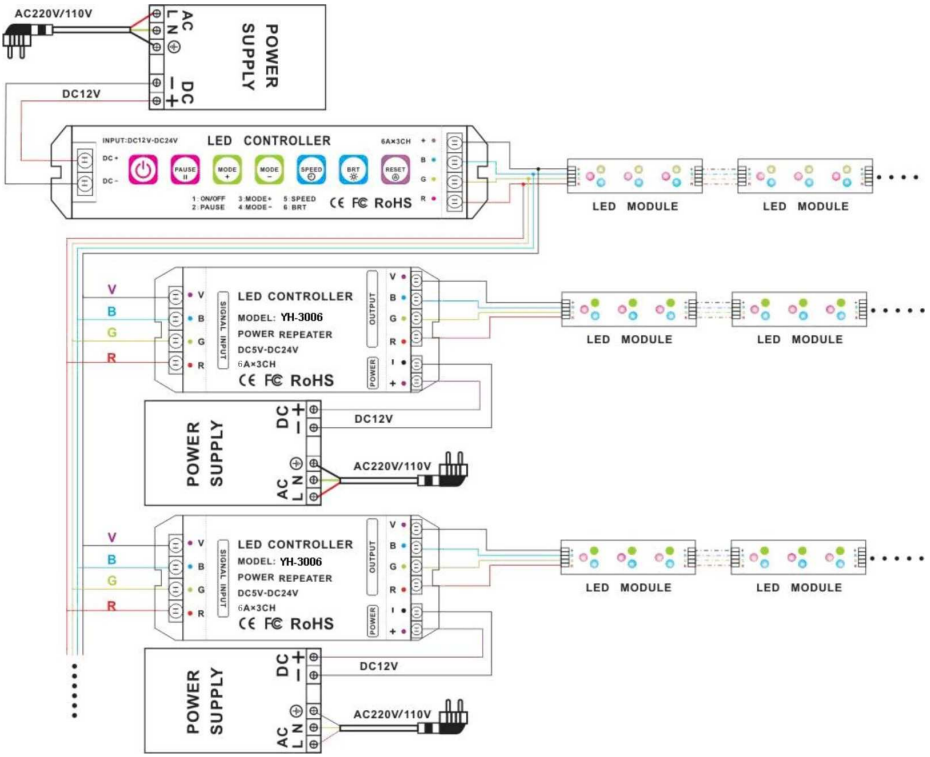
Sign	Button	RC	Description

	**ON/OFF**	**1**	**ON/OFF**：Turn on/off the controller Any button can start the controller at off status
	**PAUSE**	**2**	**Pause**：Press this button will rest at current color, press it again, will continue to change.
	**MODE+**	**3**	**Mode+**：Press this button to select next mode
	**MODE-**	**4**	**Mode-**：Press this button & back to previous mode
	**SPEED**	**5**	**Speed**：Press this button to select 1-8 speed changing levels.
	**BRT**	**6**	**Brightness**：Press this button to select 1-8 brightness adjustment levels.
	**RESET**	**/**	**Reset**：Press it a second, enter Cycle mode；Press this button over 3 seconds，if LED flickers twice, it means it has restored to Default status successfully.

Ⅵ.Conjunction sketch map（connected to LED module as an example）



Ⅶ. Conjunction diagram, working with our YH-3006 power repeater （connected to LED module as an example）



Ⅷ. Exception Handles

Malfunction	Causation	Settle
Incorrect color Amplifier not in phase	4. Incorrect RGB output wire connection 5. Incorrect in-phase connection	1、 Re-connect RGB wires correspondently 2、 Re-connect in-phase wires correspondently
No changes from certain mode	7. Speed is too slow	3、 Press Speed to accelerate
Uneven brightness between front and rear, with voltage drop	8. Output cable is too long 9. Wire diameter is too small 10. Overload beyond controller capability	8. Reduce cable or use loop circuit. 9. Change wider wire 10. add power amplifier
Remote controlling unavailable	11. Battery without power 12. Out of remote-control distance	1. Change battery 2. Reduce remote-control distance